MODIFIED PTO/SB/08 (08-00)

Approved for use through 10/31/2002. OMB 0651-0031 U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control

nu <u>mber.</u>							
	Substitute	for form 1449B	I/PTO		Complete if Known	OIPE	
	INFORMA	TION DISCLO	SURE	Application Number	10/517,053	至	
•	STATEME	NT BY APPL	ICANT	Filing Date	07/06/2005	Ž	7
	D = 4 = 0 b == 144		- E 2008	First Named Inventor	Akira NAKAO	SEP 0 5 2006	\prod
	Date Submitte	aa: Septembe	ir. 5, 2006	Group Art Unit	Unassigned	13 4	I =
	(use as man)	sheets as ne	ecessary)	Examiner Name	Unassigned	(Z)	
Sheet	1	of	1	Attorney Docket Number	074129-0515	ADEMA	

			<u></u>	U.S. PATENT DOCUMENTS	3						
		U.S. Patent [Document		Date of Publication of	Pages, Columns, Lines, Where Relevant					
Examiner Initials*	Cite No. ¹						Number	Kind Code ² (if known)	Name of Patentee or Applicant of Cited Document	Cited Document Pas	Passages or Relevant Figures Appear
F/L	C1	4,327,076		Puglia et al.	04/27/1982						
			1								

					FC	DREIGN PATENT DOCUMEN	TS		
Examiner Initials*	Cite No.1		Foreign Patent Document Office ³ Number ⁴ Kind Code ⁵ (if known)			Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	⊤್	
FK	C2	EP	0 744 174		A1	Colgate-Palmolive Company	11/27/1996		
				•					
							•		
,									

		NON PATENT LITERATURE DOCUMENTS						
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.						

Examiner Signature	Krass	Fre Dorick	Date Considered	12/21/06
digitature	7	1 reaces 100		1-11-0

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

¹ Unique citation designation number. 2See attached Kinds of U.S. Patent Documents. 3Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3), *For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. *Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. *Applicant is to place a check mark here if English language Translation is attached.

இது of 1995, no g

of

Substitute for form 14498/P10

INFORMATION DISCLOSURE

STATEMENT BY APPLICANT

Date Submitted: March 2, 2005

(use as many sheets as necessary

Under the Paperwork Reduction

1

number.

Sheet

Approved for use U.S. Patent and Trademark Office

MODIFIED PTO/SB/08 (08-00) brough 10/31/2002. OMB 0651-0031 DEPARTMENT OF COMMERCE it contains a valid OMB control

are required to respond to a collection of information

Complete if Known **Application Number** 10/517,053 01/04/2005 Filing Date Akira NAKAO First Named Inventor Unassigned **Group Art Unit** Unassigned **Examiner Name** 074129-0515 **Attorney Docket Number**

				U.S. PATENT DOCUMENTS	;	
		U.S. Patent	Document	Now of Detector or Applicant of	Date of Publication of	Pages, Columns, Lines, Where Relevant
Examiner Initials*	Cite No. ¹	Number	Kind Code ² (if known)	Name of Patentee or Applicant of Cited Document	Cited Document MM-DD-YYYY	Passages or Relevant Figures Appear

				F	PREIGN PATENT DOCUMENTS Date of Publication of Pages, Columns, Lines				
Examiner Initials*	Cite No.1	Foreign Patent Document Office ³ Number ⁴ Kind Code ⁵ (if known)		Kind Code ³	Name of Patentee or Applicant of Cited Documents	Cited Document MM-DD-YYYY	Where Relevant Passages or Relevant Figures Appear	ТВ	
\$V	B1	JP	52-79037		Sunstar Kabushiki Kaisha	07/02/1977		Abs	
FK	B2	JP	62-45513		Taiyo Kagaku KK	02/27/1987		Abs	
FV	В3	JP	63-60917		Lion Corp.	03/17/1988		Abs	
₽b.	B4	JP	2-223511		Procter & Gamble	09/05/1990		Abs	
FK.	B5	JP	5-58861		Asahi Chemical Ind	03/09/1993		Abs	
								<u> </u>	
								 -	

		NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.					
		·					
			+				
			+				
•		•					
1							

Examiner Date Considered 12/2//06			 	
Signature / (u.s.s. 1. ased to 1	Examiner Signature	1 / 4.55	Date Considered	12/21/06

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

10/517053

Approved for rough 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB central number.

Substitute for form 1449B/PTO Complete if Known INFORMATION DISCLOSURE **Application Number** Unassigned STATEMENT BY APPLICANT **Filing Date** 12/03/2004 **First Named Inventor** Akira NAKAO Date Submitted: December 3, 2004 **Group Art Unit** Unassigned Unassigned (use as many sheets as necessary) **Examiner Name** 074129-0515 **Attorney Docket Number** Sheet of

		,		U.S. PATENT DOCUMENTS	;	
		U.S. Patent	Document	Name of Detector or Applicant of	Date of Publication of	Pages, Columns, Lines, Where Relevant
Examiner Initials*	Cite No. ¹	Number	Kind Code ² (if known)	Name of Patentee or Applicant of Cited Document	Cited Document MM-DD-YYYY	Passages or Relevant Figures Appear
-						

			•	F	DREIGN PATENT DOCUMEN			
Examiner	Cite				Name of Patentee or	Date of Publication of Cited Document	Pages, Columns, Lines, Where Relevant	
Initials*	No.1	Offic	e ³ Number ⁴	Kind Code ⁵ (if known)	Applicant of Cited Documents	MM-DD-YYYY	Passages or Relevant Figures Appear	T ⁶
FL	A1	JP	2002-179540	Α	Sunstar Inc.	06-26-2002		Abst.
1	A2	JP	2002-179541	Α	Sunstar Inc.	06-26-2002		Abst.
	A3	JP	2001-039842	Α	Kao Corp.	02-13-2001		Abst.
	A4	JP	09-110663	Α	Lion Corp.	04-28-1997		Abst.
	A5	JР	11-246377	Α	Lion Corp.	09-14-1999		Abst.
	A6	JP	11-199456	Α	Lion Corp.	07-27-1999		Abst.
	A7	JP	11-171751	Α	Lion Corp.	06-29-1999		Abst.
- 	A8	JP	11-171750	Α	Lion Corp.	06-29-1999		Abst.
, \ _	A9	JP	2001-302474	Α	Lion Corp.	10-31-2001		Abst.
- V	A10	JP	11-199455	Α	Lion Corp.	07-27-1999		Abst.
FE	A11	JP	11-012168	A	Lion Corp.	01-19-1999		Abst.
							,	

		NON PATENT LITERATURE DOCUMENTS						
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.						
	·							
	-							

Examiner Signature	Krass, Frederick	Date Considered	12/21/06

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ¹Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ¹For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁴Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.